Bruhat Bangalore Mahanagara Palike
Executive Engineer Project Division Yelahanka

Name of Work: Providing and installation of water fountains in ward no. 10 Doddabommasandra

Sl No	Description of Item	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	Civil Work								
1	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications (PWD SR 2018-19, I No-19.1, P No-143)								
	Basic rate	130.00							
	Area Weightage 6%	7.80							
	Loading and Unloding & Lead, 2km	62.12							
	Total	**199.92**							
		Cum							
	For Fountain			Area					
	12' dia = 3.7m, 9" wall, Outer boundary 13.5' = 4.2m		1	10.50		1.20	12.60		
	Underground		1	1.00	1.00	1.00	1.00		
	15' dia = 4.6m, 9" wall, Outer boundary 13.5' = 4.2m		1	16.40		1.20	19.68		
	Underground		1	1.00	1.00	1.00	1.00		
	Debris		1	12.00	3.00	0.75	27.00		
							61.28	**199.92**	**12,251.10**
2	KSRB 2.6 : Providing and filling sand in foundation to required depth for sub soil treatment including watering ramming with all lead and lift complete as per specifications. (PWD SR 2018-19 It No. 2.13 Pg. No.7)								
	Basic rate	2060.00							
	Area Weightage 6%	123.60							
	Total	**2183.60**							
		Cum							
	For Fountain			Area					
	12' dia = 3.7m, 9" wall		1	10.50		0.05	0.53		
	15' dia = 4.6m, 9" wall		1	16.40		0.05	0.82		
	Deduct Pedestal		-1	3.00	3.00	0.05	-0.45		
							0.90	**2183.60**	**1,954.32**
3	KSRB 4-1.4 : Providing and laying in position plain cement concrete of Mix 1:5:10 with OPC @ 160kgs, with 40mm and down size graded granite metal coarse aggregates @0.86cum and fine aggregtes @ 0.58cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM curing complete as per specifications. (PWD SR 2018-19 It No.4.4 Pg. No.13)								
	Basic rate	5015.00							
	Area Weightage 6%	300.90							
	Total	**5315.90**							
		Cum							
	For Fountain			Area					
	12' dia = 3.7m, 9" wall		1	10.50		0.10	1.05		
	15' dia = 4.6m, 9" wall		1	16.40		0.10	1.64		

Sl No	Description of Item	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	Deduct Pedestal		-1	3.00	3.00	0.10	-0.90		
							1.79	**5315.90**	**9,515.46**
4	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of Mix 1:2:4 with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2 (PWD SR 2018-19 It No.4.6 Pg. No.13)								
	Basic rate	5422.00							
	Area Weightage 6%	325.32							
	Total	**5747.32**							
		Cum							
	For Fountain			Area					
	12' dia = 3.7m, 9" wall		1	10.50		0.10	1.05		
	Deduct wall		-4	0.23	0.90	0.10	-0.09		
	15' dia = 4.6m, 9" wall		1	16.40		0.10	1.64		
	Deduct wall		-4	0.23	0.90	0.10	-0.09		
	Deduct Pedestal		-1	3.00	3.00	0.10	-0.90		
							1.61	**5747.32**	**9,253.19**
5	KSRB 6-2 : Providing and constructing burnt brick masonry with approved quality of non-modular bricks of standard size of class designation 5.0Newton per sqmm (table moulded) with cement mortar 1:6 for basement and superstructu/re including cost of materials, labour charges, scaffolding, curing complete as per specifications. (PWD SR 2018-19 It No.6.6 Pg. No.29)								
	Basic rate	6709.00							
	Area Weightage 6%	402.54							
	Total	**7111.54**							
		Cum							
	For Fountain			Circum					
	12' dia = 3.7m, 9" wall		1	11.50	0.23	1.00	11.50		
	Underground wall		4	0.90	0.23	0.90	3.24		
	15' dia = 4.6m, 9" wall		1	14.40	0.23	1.00	14.40		
	Underground wall		4	0.90	0.23	0.90	3.24		
							32.38	**7111.54**	**230271.67**
6	KSRB15-3 : Providing 15mm thick cement plaster in single coat with cement mortar to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. PWD SR 2018-19 It No. 15.13 Pg. No.115, cement mortar 1:4								
	Basic rate	221.00							
	Area Weightage 6%	13.26							
	Total	**234.26**							
		Sqm							
	For Fountain			Circum					
	12' dia = 3.7m, 9" wall		1	11.50		1.00	11.50		
	Underground wall		4	0.90		0.90	3.24		
	15' dia = 4.6m, 9" wall		1	14.40		1.00	14.40		
	Underground wall		4	0.90		0.90	3.24		
							32.38	**234.26**	**7,585.34**

Sl No	Description of Item	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
7	KSRB 14.14-5: Providing Ceramic tiles of approved make,shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1:3 mix, flush pointing with white cement using colour pigment , including cost of materials, labour, curing, complete as per specifications. Specification No. KBS for Ceramic Tiles of size 15x15cms 6mm thick (PWD SR 2018-19 It No.14.36.1 Pg. No.108)								
	Basic rate	1124.00							
	Area Weightage 6%	67.44							
	Total	**1191.44**							
		Sqm							
	For Fountain			Circum					
	12' dia = 3.7m, 9" wall		1	11.50	1.00		11.50		
				Area					
	Basement		1	10.50			10.50		
	Underground wall		4	0.90	1.00		3.60		
	15' dia = 4.6m, 9" wall		1	14.40	1.00		14.40		
				Area					
	Basement		1	16.40			16.40		
	Underground wall		4	0.90		0.90	3.24		
							59.64	**1191.44**	**71,057.48**
8	KSRB 14.4 : Providing and laying flooring and steps fine dressed granite stone slabs 40 mm thick on cement mortar bed 1:6, 25 mm thick, and pointed with cement mortar 1:3 over existing cement concrete bed, including cost of materials, mortar, labour, curing complete as per specifications. (PWD SR 2018-19 It No.14.4 Pg. No.103)								
	Basic rate	3241.00							
	Area Weightage 6%	194.46							
	Total	**3435.46**							
		Cum							
	For Fountain			Circum					
	12' dia = 3.7m, 9" wall		1	11.50		0.30	3.45		
	15' dia = 4.6m, 9" wall		1	14.40		0.30	4.32		
							7.77	**3435.46**	**26,693.52**
9	Providing half nosing for 40mm thick granite slab using required machinery including cost and conveyance of all materials, labour for all items of work, HOM etc., complete as per specification (PWD SR 2018-19 It No.14.54 Pg. No.111)								
	Basic rate	360.00							
	Area Weightage 6%	21.60							
	Total	**381.60**							
		m							
	For Fountain			Circum					
	12' dia = 3.7m, 9" wall		2	11.50			23.00		
	15' dia = 4.6m, 9" wall		2	14.40			28.80		
							51.80	**381.60**	**19,766.88**
10	KSRRB M300-53. Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300-2 complete as per specifications, including cost of gravel / murrum, watering charges & compaction by vibratory roller to 95% of modified proctors density. (PWD SR 2018-19 It No.19.60 Pg. No.147)								
	Basic rate	325.00							
	Area Weightage 6%	19.50							
	Total	**344.50**							

Sl No	Description of Item	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
		Cum							
	For Fountain			Circum					
	12' dia = 3.7m, 9" wall	1*.5	0.5	11.50	2.00	1.00	11.50		
	15' dia = 4.6m, 9" wall	1*.5	0.5	14.40	2.00	1.00	14.40		
							25.90	**344.50**	**8,922.55**
11	KSRRB M300- 2.1. Grassing with Doobs grass including watering and maintenance of the lawn for 30 days or more till the grass forms a thick lawn free from weeds and fit for moving including supplying good earth if needed complete as per specifications. (PWD SR 2018-19 It No.19.78 Pg. No.148)								
	Basic rate	46.00							
	Area Weightage 6%	2.76							
	Total	48.76							
		Sqm							
	For Fountain			Circum					
	12' dia = 3.7m, 9" wall		1	11.50	3.00		34.50		
	15' dia = 4.6m, 9" wall		1	14.40	3.00		43.20		
							77.70	**48.76**	**3,788.65**
12	A. Design, Supply, Installation, Testing & Commissioning of Dancing Traditional Ring Fountain with Foam Jets consists of 12 feet & 4 feet diameter circular spray rings each 1 no. made up of 2" dia stainless steel 304 grade pipes with necessary inlets & 100 nos. coupling welded for nozzles fixing including necessary support legs to fix the ring on the wall, B. 5 H.P Openwell submersible monoblock water-cooled pump 1 no. (Three phase – 2880 Rpm – 440 V – 50 Hz Suguna or CRI make or Texmo make) made up of high grade cast iron materials, C. Angle adjustable smooth stream nozzles 100 nos. made up of brass with nickel plating, D. Multi color 18 Watts – 12 Volts L.E.D lights 24 nos. made up of stainless steel, sealed with heat resistant, toughened glass provided with stainless steel mounting cradle, E. Supreme make ASTM D1785 SCH 40 UPVC pipes, ASTM D2467 SCH 80 UPVC fittings & control valves, F. Solenoid Valves 5 nos. for dancing effectsG. Sequential control unit consists of preprogrammed and automatic ON – OFF for dancing effects, necessary wire mesh unit made up of stainless steel with stainless steel frame for protect the pump from the dust and garbage articles and necessary electrical items like Control Panel made up of 16 SWG powder coated mild steel including BCH / L&T make panel board for 3 H.P pump consisting of isolated switch, phase lights, start and stop push buttons, contactor, relay, volt meter, ammeter in a powder coated mild steel enclosures, 40 Amps 4 pole Legrand / L&T make isolator, 20 amps single pole Legrand / L&T make miniature circuit breaker, necessary 1.0 Sq.mm 4 core Havels / Polygon / Finolex make electric cables for lights, automatic colour changing ON- OFF timer control 1 no. for lights with powder coated mild steel control panel 1 no, H. Professional charges for fountain erection etc. complete. (Approved data rate)								
		Unit							
	For Fountain								
	12' dia = 3.7m		1				**1.00**	**1600000.00**	**1600000.00**

Sl No	Description of Item	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
13	A. Design, Supply, Installation, Testing & Commissioning of Dancing Traditional Ring Fountain with Foam Jets consists of 15 feet & 4 feet diameter circular spray rings each 1 no. made up of 2" dia stainless steel 304 grade pipes with necessary inlets & 100 nos. coupling welded for nozzles fixing including necessary support legs to fix the ring on the wall, B. 5 H.P Openwell submersible monoblock water-cooled pump 1 no. (Three phase – 2880 Rpm – 440 V – 50 Hz Suguna or CRI make or Texmo make) made up of high grade cast iron materials, C. Angle adjustable smooth stream nozzles 100 nos. made up of brass with nickel plating, D. Multi color 18 Watts – 12 Volts L.E.D lights 24 nos. made up of stainless steel, sealed with heat resistant, toughened glass provided with stainless steel mounting cradle, E. Supreme make ASTM D1785 SCH 40 UPVC pipes, ASTM D2467 SCH 80 UPVC fittings & control valves, F. Solenoid Valves 5 nos. for dancing effectsG. Sequential control unit consists of preprogrammed and automatic ON – OFF for dancing effects, necessary wire mesh unit made up of stainless steel with stainless steel frame for protect the pump from the dust and garbage articles and necessary electrical items like Control Panel made up of 16 SWG powder coated mild steel including BCH / L&T make panel board for 3 H.P pump consisting of isolated switch, phase lights, start and stop push buttons, contactor, relay, volt meter, ammeter in a powder coated mild steel enclosures, 40 Amps 4 pole Legrand / L&T make isolator, 20 amps single pole Legrand / L&T make miniature circuit breaker, necessary 1.0 Sq.mm 4 core Havels / Polygon / Finolex make electric cables for lights, automatic colour changing ON- OFF timer control 1 no. for lights with powder coated mild steel control panel 1 no, H. Professional charges for fountain erection etc. complete. (Approved data rate)								
	15' dia = 4.6m		1				1.00	1950000.00	1950000.00
								Total Construction Cost	3951060.16
								Towards GST 12%	48,127.22
								Sub Total	3999187.38
								Utility Shifting,Miscellaneous and Rounding off	812.62
								GRAND TOTAL	4000000.00

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The rates adopted based on the PWD SR,Bangalore circle for year 2018-2019.and Data Rates

Assistant Engineer
Project Division Yelahanka
BBMP Bangalore

Asst.Executive Engineer
Project Division Yelahanka
BBMP Bangalore

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Executive Engineer
Project Division Yelahanka
BBMP Bangalore

Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore-92

Technical Sanction
Accorded For Rs. 40.00 lakhs
Head of A/C 12-3739
CER NO :.....46..... Dt:.09/07/2020

SE (YNK)

Administrative Approval
Accorded For Rs. 40.00 lakhs
Head of A/C 12-3739
CER NO : 60 **Dt:** 04/12/2020

S.E (Project)